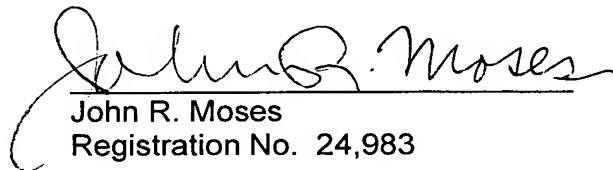


REMARKS

The foregoing amendments have been filed to replace initialed and dated handwritten corrections to the specification with corresponding typed inserts.

The Commissioner is hereby authorized to charge any fees associated with this response or credit any overpayment to Deposit Account No. 13-3402.

Respectfully submitted,


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Date: December 31, 2001

VERSION WITH MARKINGS TO SHOW CHANGES MADE

In The Specification:

On page 1, the first paragraph has been amended as follows:

The present invention is directed to an improved hose structure; formulations for a rubber tube used therein, and method of making the hose structure. More particularly, the present invention is directed to a rubber formulation utilizing ~~polyvinyl chloride~~ chlorinated polyethylene (CPE) for making a tubular portion of a hose and to a method of making a hose using that tubular portion.

On page 5, the first full paragraph has been amended as follows:

| Component | Description | Parts by Weight |
|-------------------|--|-----------------|
| Polymer | CPE | 90 - 100 |
| Plasticizer | Blend of polymeric and ester based component, e.g. | 35 - 55 |
| | (Diethyl Adipate <u>Adipate</u>) | (10 - 30) |
| | (Epoxidized soyabean oil) | (10 - 30) |
| Reinforcing Agent | Carbon black | 100 - 150 |
| Heat Stabilizer | Blend of metal oxides and silicates | 5 - 20 |
| | <u>Magnesium Oxide,</u> <u>Lead Silicate</u> | |

| | | |
|--------------------|---|--|
| Antidegradants | Blend of quinoline types <u>2, 2, 4-Trimethyl-1, 2-dihydroquinoline</u> <u>6-ethoxy-1, 2-dihydro-2, 2, 4-trimethylquinoline</u> | 0.5 – 3 |
| Process Aids | Blend of low molecular weight waxes <u>Stearic Acid,</u> <u>Polyethylene (low molecular weight)</u> | 0.5 – 2 |
| Vulcanizing Agents | Blend of peroxide and cross-linking coagents, e.g. (Dicumyl peroxide) (1,1 – bis (t-butylperoxy), (3,3,5 – trimethyl cyclohexame), (Triallyl Trimellitate) | (2-5) (2 – 1 0) (2-5) (2 – 5) |

The paragraph bridging pages 5 and 6 has been amended as follows:

The resulting rubber compound is mixed using an internal mixer as a temperature which rises from room temperature to about 250°F and is held at the 250°F level for about one minute. In the mixer, the ingredients are sheered sheared until they reach a homogeneous state. The mixed ingredients are then dumped from the mixer, quickly cooled and stored for making the hose 10.

On page 6, the second full paragraph has been amended as follows:

Referring now to Fig. 2 where the method of making the hose is illustrated, the mixed ingredients 30 fill an extruder 32 and are extruded onto a thermal plastic mandrel, e.g. NYLON® that forms the desired inside diameter 13. The distance between the inside

diameter 13 and the outside surface 15 provides the wall thickness of the finished tube 12.

The extruder 32 has an output speed of 15 to 50 feet per minute and a temperature which is maintained in the range of 150 – 180°F. After being extruded, the tube 12 is passed through a freezer 36 that gives dimensional stability to the tube prior to the wire reinforcement 14 being applied by a braider 42. Preferably, the braiding wire 14 is either stainless steel wire or brass plated steel wire. The tube 12 with the reinforcing layer 14 thereover is then passed through a rubber strip unwind unit ~~second extruder~~ 44 which lays the adhesive backing layer 18 over the wire reinforcing layer 14. The backing layer 18 is preferable of rubber and provides an adhesive layer between the wire layer 14 and the subsequent layer of yarn braid 20. The yarn braid 20 is applied by a yarn braider 50 which dispenses strands 52 of yarn. Subsequent to the strands 52 of yarn forming the yarn braided layer 20, the coating 22 having a polyurethane base is applied by a coater 53 over the braided yarn layer 20.

On page 7, the first full paragraph has been amended as follows:

The hose 10 or 10' is then vulcanized by a vulcanizer 62 in steam, at approximately 300°F for a period in the range of 60 – 80 120 minutes. Thereafter, the hose 10 is placed in a water shower 64.